

## Wochnick, Heather M CIV NAVFAC HQ, BRAC PMO

---

**From:** Chammas, Guy A CIV  
**Sent:** Monday, August 06, 2018 11:54  
**To:** 'Arseny Kalinsky'; Kevin Burton; Carl Spangenberg; Malcolm Cortez; Lyndy Lewis; Alex Murphy; Lars Oldewage; Bollweg, Alejandro M CTR NAVFAC HQ, BRAC PMO; Callian, James T CIV NAVFAC HQ, BRAC PMO; Smits, Marc P CIV NAVFAC HQ, BRAC PMO; JDadakis@ocwd.com; Patrick Versluis; Roy Herndon  
**Subject:** FINAL PFAS Meeting Agenda  
**Attachments:** FINAL PFAS AGENDA\_08.07.18\_Navy\_IRWD\_OCWD.pdf  
**Signed By:** GUY.CHAMMAS@NAVY.MIL

Please see final agenda attached. I did not receive any comments from OCWD/IRWD on the draft agenda, but I realize there was limited review time provided. If you have any requests or additional topics, please bring them up at the meeting. Thanks!

Guy Chammas, MS, PG, CPSS  
Lead Remedial Project Manager  
Former Marine Corps Air Stations El Toro and Tustin  
U.S. Department of the Navy  
Base Realignment and Closure Program Management Office West  
33000 Nixie Way, Building 50  
San Diego, CA 92147-5101  
619.524.5922  
guy.chammas@navy.mil

-----Original Appointment-----

From: Arseny Kalinsky <KALINSKY@irwd.com>  
Sent: Monday, May 14, 2018 2:18 PM  
To: Arseny Kalinsky; Kevin Burton; Carl Spangenberg; Malcolm Cortez; Lyndy Lewis; Alex Murphy; Lars Oldewage; OP CN COMMITTEE RM; Bollweg, Alejandro M CTR NAVFAC HQ, BRAC PMO; Chammas, Guy A CIV; Callian, James T CIV NAVFAC HQ, BRAC PMO; Smits, Marc P CIV NAVFAC HQ, BRAC PMO; JDadakis@ocwd.com; Patrick Versluis; Roy Herndon  
Subject: [Non-DoD Source] Per- and Polyfluoroalkyl Substances (PFAS) at the IRP 18 and 24 (SGU&PAP)  
When: Tuesday, August 07, 2018 13:00-14:00 (UTC-08:00) Pacific Time (US & Canada).  
Where: OP CN COMMITTEE RM

This is a second meeting on PFAS compounds in the groundwater treated at SGU and PAP. The summary of the first meeting on PFAS (3/29/18) is attached.

The meeting agenda will be provided by the DON. Please add any attendees to this meeting as needed. Let me know ahead of time of a time conflict.

Thanks,

Arseny Kalinsky, P.E.  
Engineer  
Irvine Ranch Water District  
3512 Michelson Drive  
Irvine, CA 92612  
Mailing: PO Box 57000, Irvine, CA 92619-7000  
Office: (949) 453-5867  
Cell: (949) 212-3143  
kalinsky@irwd.com <mailto:kalinsky@irwd.com>

**FINAL AGENDA**  
**Discussion of Per- and Polyfluoroalkyl Substances Detections in Groundwater**  
**in the Vicinity of Former Marine Corps Air Station El Toro**

Irvine Ranch Water District Operations Center

7 August 2018, 1300–1400

Dial-In: [REDACTED], Passcode [REDACTED]

**I. ACTION ITEMS FROM 29 MARCH 2018 MEETING**

- A. OCWD to submit results from previous sampling of production well (b) (9) to the Navy (completed)
- B. OCWD to prioritize sampling of PA extraction wells ET-2 and IRWD-78 for PFAS analysis
- C. Navy, IRWD, and OCWD to discuss Settlement Agreement stipulations with respective counsels
- D. Navy to consider sampling monitoring well 18BGMW19 for PFAS analysis

**II. SETTLEMENT AGREEMENT STIPULATIONS**

- A. Navy notification of PFAS detections submitted to IRWD/OCWD in October 2017
- B. Existing treatment operations, responsibilities, and effectiveness
  - 1. Air stripping and vapor-phase GAC not effective
  - 2. Former MCAS Tustin liquid-phase GAC treatment system effective (12,000 ppt in influent to ND in effluent)
  - 3. Navy cannot mandate liquid-phase GAC upgrade, but has concerns considering regulations are imminent
  - 4. No current regulatory driver for treatment
- C. Groundwater ownership and liability
  - 1. Ownership transfers to IRWD/OCWD between SGU Transfer Station and SGU Treatment Plant
  - 2. Navy cannot dictate disposition of groundwater, but is concerned about liability and environmental risks
  - 3. Risk assessment must involve U.S. EPA, DTSC, SARWQCB, and CDPH
  - 4. Treatment train upgrades would be responsibility of IRWD/OCWD
  - 5. OCWD/IRWD covenant not to sue and indemnification
  - 6. No PFAS results for recycled water
- D. Status of proposed as-needed diversion of treated effluent to Michelson Plant
- E. Potential end-user exposures (terrestrial, marine, recycled water, previously unimpacted areas)

**III. ADDITIONAL DISCUSSION**

- A. Pending listing of PFAS as a CERCLA hazardous substance (October 2018)
- B. Other Orange County Basin PFAS investigations

**IV. ACTION ITEMS/FOLLOW-UP MEETING**